

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listing, of claims in the application:

Listing of Claims:

1. (Currently amended) A security control apparatus comprising:
a security device;
a control apparatus responsive to security codes for enabling and disabling the security device;
a security code source unit which communicates security codes to the control apparatus, the security code source unit having ~~a user controlled keypad and a voice an~~ analysis apparatus ~~comprising a means for analyzing a first voice signal and a secondary access control selected from the group consisting of a means for analyzing a second voice signal and a user controlled keypad, the security control unit and including circuitry responsive to the [[voice]] analysis apparatus and secondary control, the security code source unit effective for communicating which generates and communicates~~ to the control apparatus a security code including a portion representing user interaction with the security code source unit, ~~wherein the means for analyzing the first voice signal voice analysis apparatus comprises comprising a speaker dependent voice analysis means for analyzing a first received voice signal to effect access to a secured area, and a speaker independent voice analysis the means for analyzing the [[a]] second received voice signal being voice independent different from the first received voice signal, the second received voice signal including a passcode to effect entry into a secured area and which passcode is verified by the control apparatus to effect the access to the secured area, the secondary access control speaker independent voice analysis means being automatically activated to analyze the second received voice signal or signal from the keypad without further analysis of the first voice signal when the speaker dependent voice means fails to identify the first received voice signal.~~

2. (Cancelled)

3. (Currently Amended) A security control apparatus in accordance with claim 1, wherein the security code source unit comprises memory for storing the passcode entered by [[a]] the user in association with representations of speech generated by the speaker independent voice analysis means apparatus.

4. (Currently Amended) A security control apparatus in accordance with claim 3, wherein the circuitry which communicates security codes responds to predetermined comparison characteristics between a stored speech representation and a spoken speech representation for communicating a security code.

5. (Previously presented) A security control apparatus in accordance with claim 3, wherein a security code communicated to the control apparatus comprises the passcode entered by user interaction with the keypad.

6. (Currently Amended) A security control apparatus in accordance with claim 3, wherein a security code communicated to the control apparatus comprises the passcode entered via the speaker independent voice analysis means apparatus.

7. (Cancel)

8. (Currently Amended) A security control system in accordance with claim [[7]] 44, comprising:

a pass code apparatus responsive to speaker dependent security approval independent voice analysis means, the pass code apparatus effective for transmitting a security code comprising a predetermined pass code to a barrier movement apparatus and the security control apparatus comprises apparatus for generating the security approval signal in response to the predetermined pass code.

9. (Cancelled)

10. (Currently Amended) A security control system in accordance with claim [[7]] 44, comprising apparatus operative during a learn mode for storing speech representations of a first user's voice speaking the commands; and memory for storing the speech representations.

11. (Currently Amended) A security control system in accordance with claim [[7]] 44, wherein the speaker independent dependent voice analysis means apparatus is adapted to receive input representing a passcode and apparatus for storing the passcode representations input by the user in association with the stored speech representations.

12-22. (Cancelled)

23. (Currently amended) A barrier movement apparatus comprising: barrier control apparatus responsive to barrier control commands security codes for moving a barrier;

control circuitry responsive to user interaction for generating transmitting barrier control commands security codes to control barrier movement, said the user interaction comprising security approval before the generation of the barrier control commands security codes, wherein the control circuitry comprises a speaker dependent voice analysis means for analyzing a first spoken words password to effect transmission of a pass code and the security codes and a speaker independent voice analysis means for analyzing second spoken words passcode to effect transmission of a passcode and the security codes and for granting security approval, the speaker independent voice analysis means being activated when the speaker dependent voice analysis means fails to grant security approval based upon analyzing the first spoken password words, the speaker independent voice analysis means automatically being activated upon the failure of the speaker dependent voice analysis means to recognize the first spoken password, the speaker independent voice analysis means and the second spoken passcode words spoken by the user effecting entry into a secured area without further analysis of the first password after the failure to recognize the first spoken password, the second spoken

[[words]] passcode being different from the first spoken words password and the second spoken words passcode including a verified pass code to effect entry into a secured area ;and
~~voice analysis means responsive without security approval to at least one predetermined word spoken by a user generating barrier control commands to change the movement of a barrier.~~

24. (Currently amended) A barrier movement apparatus in accordance with claim 23 wherein the control circuitry enables [[the]] a voice analysis means for a predetermined period of time after the generation of a barrier control command to respond without security approval to the at least one spoken word to stop a closing barrier.

25. (Cancelled).

26. (Currently Amended) A barrier movement apparatus comprising:
a motor responsive to barrier control commands for operating the barrier;
a speaker dependent voice analysis apparatus responsive to a first successful analysis of a predetermined first spoken command password from a predetermined a user speaker for recognizing the password and controlling the motor to operate the barrier upon a successful recognition of the password; and

a speaker independent voice analysis apparatus [[being]] which is automatically activated by a failure of the recognition of the password by the speaker dependent voice analysis apparatus, the speaker independent voice analysis apparatus responsive to a [[the]] successful analysis [[of]] of a spoken passcode predetermined and being responsive for a short period of time to a second spoken command from any speaker for changing barrier movement, the second command being different from the first command and spoken passcode uttered subsequent to the spoken password to effect entry to effect entry into a secured area without further analysis of the spoken password and the failure to recognize the password, the speaker independent voice analysis apparatus recognizing and verifying the passcode and then transmitting the identified and verified passcode to the security control apparatus indicating a safety purpose.

27. (Original) A barrier movement apparatus according to claim 26, wherein the speaker independent voice analysis apparatus is enabled for a predetermined period of time after the motor is directed to operate the barrier.

28. (Original) A barrier movement apparatus according to claim 27, wherein the speaker independent voice analysis apparatus is enabled for a predetermined period of time after the motor is controlled to operate the barrier, to reverse barrier movement.

29. (Original) A barrier movement apparatus according to claim 27, wherein the speaker independent voice analysis apparatus is enabled for a predetermined period of time after the barrier control apparatus is controlled to move the barrier, to stop movement of the barrier.

30-38. (Cancelled)

39. (Currently Amended) A security control apparatus Barrier movement system in accordance with claim 3 [[1]], further comprising a voice analysis unit for analysis of a user's [[user]] spoken words to define a pass code.

40. (Currently Amended) A method of granting security access comprising:
receiving first speech information from a user;
analyzing the first speech information using a speaker dependent analysis and
generating a security code upon a successfully analyzing the first speech information with the
speaker dependent analysis;
subsequent to an unsuccessful analysis of unsuccessfully analyzing the first speech
information with the speaker dependent analysis, automatically activating a speech
independent voice analysis apparatus without further analysis of the first speech information;
after activation of the speech independent voice analysis apparatus, receiving second
speech information from a speaker the user, the second speech information being different from
the first speech information and including a passcode to effect entry into a secured area;

initiating the analyzing of the second speech information using a speaker independent voice analysis; and

generating transmitting the security code upon successfully verifying the pass code and successfully analyzing the second speech information with the speaker independent analysis.

41. (New) A security control apparatus comprising:

a security device;

a control apparatus responsive to security codes for enabling and disabling the security device; and

a security code source unit which communicates security codes to effect the transmission of the security codes to the control apparatus, the transmission of the security codes effected by a pass code,

the security code source unit having a speaker dependent voice analysis apparatus and a secondary access control selected from the group consisting of a speaker independent voice analysis apparatus and a user controlled keypad,

the speaker dependent voice analysis apparatus effective for recognizing a first spoken signal which comprises a spoken voice user password command to effect retrieval of the pass code and transmission of the security codes upon recognition of the spoken voice user password command by the speaker dependent voice analysis apparatus,

the secondary access control being automatically activated to analyze a second spoken signal or signal from the keypad comprising the pass code without further analysis of the spoken voice user password command when the speaker dependent voice analysis apparatus fails to recognize the spoken voice user password command, the secondary access control effective communicating to the control apparatus the pass code directly from the user with the failure of the speaker dependent voice analysis apparatus to recognize the spoken voice user password command.

42. (New) A security control apparatus in accordance with claim 41, further comprising apparatus operative during a learn mode for storing speech representations of a first user's voice speaking the password and the pass code; and

memory for storing the speech representations.

43. (New) A security control apparatus in accordance with claim 41, wherein the speaker independent voice analysis apparatus is adapted to receive input representing a pass code and apparatus for storing the pass code representations input by the.

44. (New) A security control system comprising:

a security device;

a control apparatus responsive to security codes for enabling and disabling the security device; and

a security code source unit to effect the transmission of the security codes to the control apparatus, the transmission of the security codes effected by a pass code,

the security code source unit having a means for speaker dependent voice analysis apparatus and a secondary access control selected from the group consisting of a means for speaker independent voice analysis apparatus and a user controlled keypad,

the means for speaker dependent voice analysis apparatus effective for recognizing a first spoken signal which comprises a spoken voice user password command to effect retrieval of the pass code and transmission of the security codes upon recognition of the spoken voice user password command by the means for speaker dependent voice analysis apparatus,

the secondary access control being automatically activated to analyze a second spoken signal or signal from the keypad comprising the pass code without further analysis of the spoken voice user password command when the means for speaker dependent voice analysis apparatus fails to recognize the spoken voice user password command, the secondary access control effective communicating to the control apparatus the pass code directly from the user with the failure of the means for speaker dependent voice analysis apparatus to recognize the spoken voice user password command.